BenQ M22 Series - Camcorder User Manual

Welcome

Downloaded From VideoCamera-Manual.com Manuals

<Note>

Downloaded From VideoCamera-Manual.com Manuals

Contents

Preface 5
About This Manual 5
Copyright 5
Disclaimer 5
Safety Warning and Notice 6

1 Overall Introduction 11

1.1 System Requirements 11
1.2 Features 11
1.3 Accessories 12
1.4 External View 13
1.5 Adjusting LCD Display 14

2 Getting Started 15

2.1 Inserting SD Card 15
2.2 Loading the battery 16
2.3 Charging the Battery 18
2.4 The gestures of using the touch screen 18
2.4.1 Single touch 18
2.4.2 Slide 19
2.4.3 Rotate 19
2.5 Buttons & Functions 20
Power Button 20
SET (Menu) Button 20
MODE Button 20

Downloaded From VideoCamera-Manual.com Manuals

Shutter button....21
2.6 About LED Indicators....21
2.7 Initial settings before use....21
2.7.1 Setting Date and Time....21
3 LCD Display Information 23
3.1 In Movie Clip Mode....23
3.2 In Voice Recording Mode....26
3.3 In DSC Mode....27
4 Using the Camera.... 29
4.1 Shooting a Movie Clip....29
4.2 Capturing a still image from a movie....31
4.3 Capturing a still image in video mode....32
4.4 Voice Recording:....33
4.5 Movie Clip / Voice Clip Playback....34
4.6 Shooting / Playback images....37
4.6.1 Taking a picture....37
4.6.2 Images Playback....38
5 LCD Display Information 40
5.1 Movie Clip Recording Mode:....40
5.2 Voice Recording Mode:....42
5.3 DSC Playback Mode....43
6 Menu Mode.... 45
6.1 Menu options of Movie Clip Mode....45

Downloaded From VideoCamera-Manual.com Manuals

6.1.1 Movie Clip Resolution....45
6.1.2 White Balance....46
6.1.3 Effect....47
6.1.4 Metering....48
6.1.5 Backlight....49
6.1.6 Night Mode....50
6.1.7 Motion Detection....51
6.1.8 EV Compensation....52
6.1.9 Multi shot....53
6.1.10 EIS (Electronic Image Stabilizer)....54
6.2 Menus of Movie Clip/Voice Playback....55
6.2.1 Delete....55
6.2.2 Protect....57
6.3 Menu options of Camera Mode....58
6.3.1 Still Image Resolution....58
6.3.2 White Balance....59
6.3.3 Effect....60
6.3.4 Metering....61
6.3.5 Backlight....62
6.3.6 Night Mode....63
6.3.7 Self-timer....64
6.3.8 Continuous Shot....65
6.3.9 EV compensation....66
6.4 Menus of Playback....67
6.4.1 Delete....67
6.4.2 Protect....69

Downloaded From VideoCamera-Manual.com Manuals

6.4.3 Auto play 70
6.4.4 Rotate 71
6.4.5 DPOF 72
6.5 Setting Menu 74
6.5.1 Information 74
6.5.2 Date / Time 74
6.5.3 Beep 75
6.5.4 Default 76
6.5.5 TV standard 77
6.5.6 USB 78
6.5.7 Auto Power Off 79
6.5.8 Frequency 80
6.5.9 Language 81
6.5.10 Format 82
6.5.11 File Number (Default: Series) 83
6.5.12 LCD brightness 84
6.5.13 Instant Review 85
6.5.14 Volume 86
6.5.15 Start-up LOGO 87
6.5.16 Face Detection 88
7 PC and TV Connection 89
7.1 Connecting to the Computer 89
7.2 Connecting to a Standard TV 89
7.3 Connecting to a HD TV 90
8 Installing the Software 91

Downloaded From VideoCamera-Manual.com Manuals

9 Editing Software..... 92

10 Appendix..... 93

Specifications.....*93*

Troubleshooting.....*95*

Preface

Congratulations on your purchase of this advanced camcorder (digital video camera). Ensure that you read this manual carefully and keep it in a safe place for future reference.

About This Manual

This manual is designed to assist you in using your new camcorder. All information presented is as accurate as possible but is subject to change without notice.

Copyright

Copyright 2010 by BenQ Corporation. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise, without the prior written permission of this company.

Disclaimer

BenQ Corporation makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties, merchantability or fitness for any particular purpose. Further, BenQ Corporation reserves the right to revise this publication and to make changes from time to time in

Downloaded From VideoCamera-Manual.com Manuals

the contents hereof without obligation of this company to notify any person of such revision or changes.

All other logos, products, or company names mentioned in this manual may be the registered trademarks or copyrights of their respective companies, and are used for informational purposes only.

Safety Warning and Notice

Before operating the camcorder, please make sure that you read and fully understand the content in this section. If you ignore and violate all safety warning notices indicated in this section, the camcorder warranty may be void. Meanwhile, not only the camcorder but also you and all other people and things around you may be severely damaged, injured, or even placed in danger of death.

For your safety

1. Do not attempt to charge any other battery with this camcorder.
2. Operate the power supply only on even surfaces, without any cover. Air circulation around the product must be always given. The maximum ambient temperature is 40 ºC.
3. The camcorder has a status LED that indicates the status of the battery charging:
   - Red light----battery is charging.
   - Green light----charging is complete.
4. The battery should fully charge in about four hours.
5. Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
6. Keep the camcorder and its accessories out of the reach of babies, toddlers, and children. In particular, small parts such

Downloaded From VideoCamera-Manual.com Manuals

as memory cards and batteries could be easily dismantled and swallowed by them.

7. Use only the original accessories to avoid possible risks to health and property, and thus meet all related legal regulations.

8. Do not dismantle the camcorder under any circumstances.

9. When using the flash, do not go too close to human eyes (particularly for babies, toddlers, and children) or animal eyes. Otherwise, when the flash fires, the light may cause damage to human eyes or irritate animals.

10. Batteries could explode, for instance. All batteries can cause property damage, injury or burns if a conductive material such as jewelry, keys or beaded chains touch exposed terminals. The material may complete an electrical circuit and become quite hot. Exercise care in handling any batteries, particularly when placing it inside your pocket, purse, or other container with metal objects. Do not dispose of batteries in fire as they may explode.

11. To prevent electric shock, do not attempt to disassemble or repair your camcorder by yourself.

12. Some camcorder models accept non-rechargeable batteries. When using these batteries, do not charge them. Otherwise, dangers such as explosion and fire may occur.

Warranty

1. Warranty is void if damage or system failure occurred due to outside factors such as collision, fire, flood, dirt, sewage, earthquake, and other force majeure events as well as incorrect usage of electricity or use of non-original accessories.

Downloaded From VideoCamera-Manual.com Manuals

2. It is the sole responsibility of the user if problems (such as data loss and system failure) occurred due to non-factory installed software, parts, and/or non-original accessories.

3. Do not change the camcorder. Any changes to the camcorder invalidate the warranty.

Taking care of your camcorder

1. Always keep the camcorder in a leather case or pouch for better protection against splashes, dust, and collision.

2. The only way of replacing the battery and the memory card is to open the Battery / Memory cover.

3. Dispose of unwanted batteries and camcorders as permitted by the laws in your countries.

4. Water may cause a fire or electric shock. Therefore, store your camcorder in a dry place.

5. If your camcorder becomes wet, wipe it with a dry cloth as soon as possible.

6. Salt or seawater may cause severe camcorder damage.

7. Do not drop, knock, or shake the camcorder. A rude behavior of using the camcorder may damage the internal electronic circuit board or deform the lens shape.

8. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the camcorder.

9. Finger grease may be left on the camcorder lens and will result in unclear images or videos. To avoid this problem, be sure to clean the camcorder lens before taking pictures or recording videos. You should also clean the camcorder lens on a regular basis.

Downloaded From VideoCamera-Manual.com Manuals

10. If the lens is dirty, use a lens brush or soft cloth to clean the lens.

11. Do not touch the lens with your fingers.

12. If a foreign substance or water gets in your camcorder, please turn the power off immediately and disconnect the batteries. Next, remove the foreign substance or water and send it to the maintenance center.

13. Whenever there is data in the external memory card, you should make a backup copy to a computer or disc. So, you can have a backup solution if data loss occurs.

14. All original accessories are designed only for use with this camcorder model you purchased. Do not use these accessories with other camcorder models or camcorders of other brands to avoid unpredictable danger or damage.

15. Before initial use of a memory card, always use the camcorder to format the card first.

16. Remember to slide the write-protect tab (if available) to the unlock position. Otherwise, all data (if any) on the memory card is protected and the card cannot be edited or formatted.

Operating environment

1. Do not use or store your camcorder in the environments listed below:

   - Direct sunlight
   - Dusty places
   - Next to an air conditioner, electric heater or other heat sources
   - In a closed car that is in direct sunlight
   - Unstable locations

Downloaded From VideoCamera-Manual.com Manuals

2. Do not use your camcorder outdoors when it is raining or snowing.

3. Do not use your camcorder in or near water.

4. The camcorder operating temperature is between 0 and 40 degrees Celsius. It is normal for the operating time to be shortened when the temperature is low.

5. The capacity of your camcorder batteries will reduce each time it is charged/emptied.

6. Storage at too high or low temperatures will also result in a gradual capacity loss. As a result, the operating time of your camcorder may be considerably reduced.

7. It is normal for the camcorder to become warm during operation, because the camcorder casing can conduct heat.

Downloaded From VideoCamera-Manual.com Manuals

1 Overall Introduction

Please read this chapter carefully to understand the features and functions of this Digital Video Camera (camcorder). The description of this chapter also includes the description of system requirement, package contents, and hardware components.

1.1 System Requirements

This Digital Video Camera requires a unit of computer with the following specifications:

- Windows® Vista / XP operating system or Mac OS 10.3 ~10.4
- A CPU of at least the equivalent of Intel® Pentium 4 2.8GHz
- At least 512 MB of RAM
- Standard USB 1.1 connection port or higher
- At least 64MB of display card

Note: USB 1.1 allows you to transmit files to the host, but using USB 2.0 connection port could increase the transmission speed far faster.

1.2 Features

This Digital Video Camera provides many features and functions including:

- High resolution pixel camera (maximum 12 million pixels)
- Touch screen
- Slow motion Playback
- Capturing a still image from a movie
- Capturing a still image in video mode

In addition, this video camera has USB mass storage hard disk, and SD card reader.

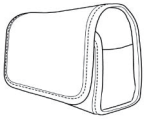
Downloaded From VideoCamera-Manual.com Manuals

1.3 Accessories

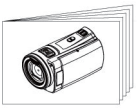
This package should contain the following items. In case there is any missing or damaged item, please contact your dealer immediately.

❶ Digital video camera

❷ Pouch*



❸ Quick guide



❹ Software CD

❺ HDMI cable

❻ Video cable

❼ USB cable

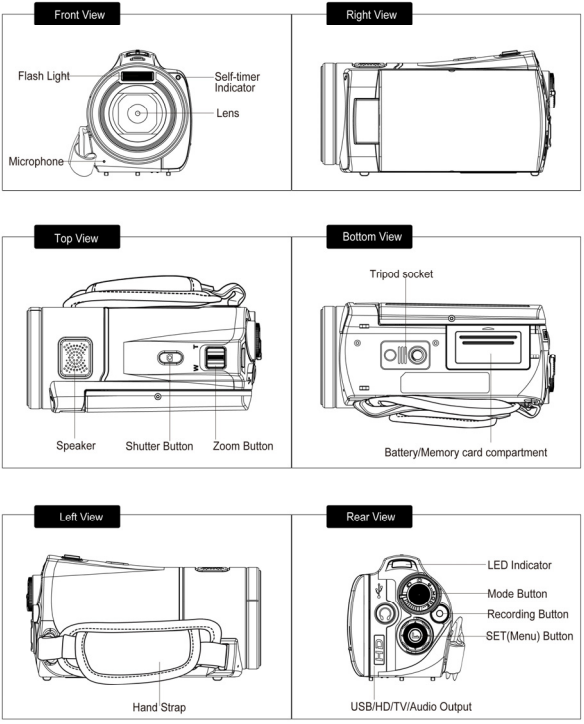
❽ Lithium battery

❾ Adaptor

* Pouch is an optional accessory.

Downloaded From VideoCamera-Manual.com Manuals

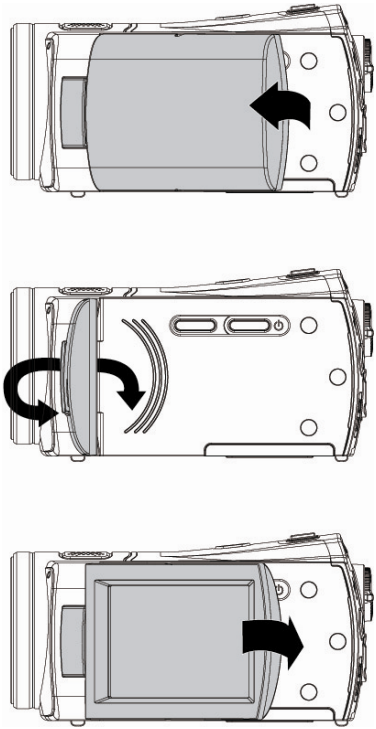
1.4 External View



Downloaded From VideoCamera-Manual.com Manuals

1.5 Adjusting LCD Display

Before taking picture or recording movie clips, please rotate according to the illustrations below.

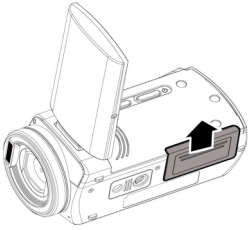


Downloaded From VideoCamera-Manual.com Manuals

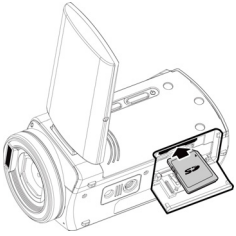
2 Getting Started

2.1 Inserting SD Card

1. Open LCD panel and open the battery cover.



2. Insert an SD card and make sure facing the touching face downward. Then follow the instructions on page 82 to format the SD card.



Note:
Do not remove or insert SD cards when the power of the Digital Video Camera is on to avoid damaging files.

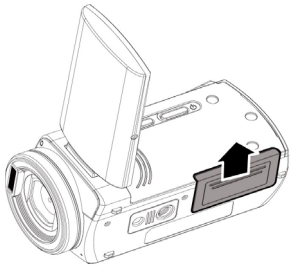
Downloaded From VideoCamera-Manual.com Manuals

2.2 Loading the battery

Please use only the battery provided or recommended by the manufacturer or dealer.

Note: Insert batteries correctly according to this description. Error in inserting batteries could result in non-repairable damage to this Digital Video Camera

1. Open LCD panel and open battery cover.

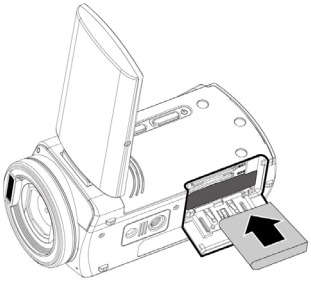


Battery Status Indicator:

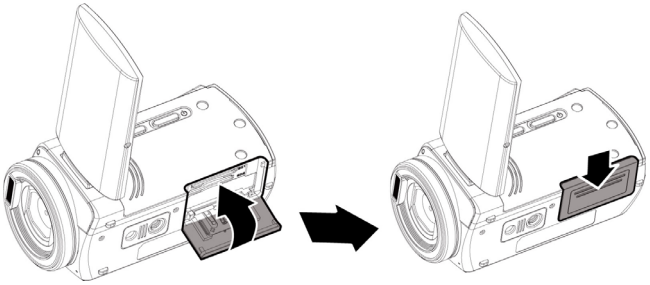
	Batteries full
	Batteries half full
	Battery empty
	• Charging battery (A battery should be charged at least 4 hours.) • The device power is supplied by DC input. (No batteries inside.)

Downloaded From VideoCamera-Manual.com Manuals

2. Insert batteries according to the illustration.



3. Close battery cover.

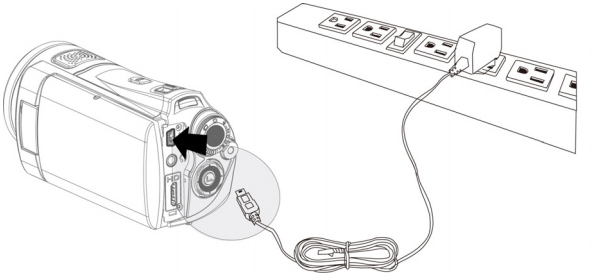


Downloaded From VideoCamera-Manual.com Manuals

2.3 Charging the Battery

You can use the adaptor attached to charge the lithium-ion battery.

Insert the lithium-ion battery into the Digital Video Camera and connect to the cable of the adaptor.



2.4 The gestures of using the touch screen

2.4.1 Single touch

Single touch for the below touchable hotkeys:

1. Resolution change (FHD, HD, WVGA, WEB or 12M, 8M, 5M, 3M)

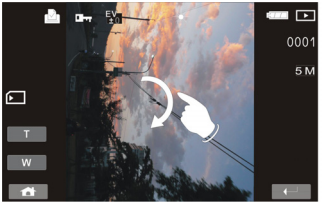
Downloaded From VideoCamera-Manual.com Manuals

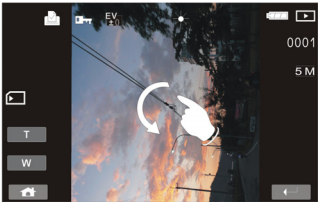
2.4.2 Slide

Slide right or left to view the previous file or the next file under the Playback Mode.

2.4.3 Rotate

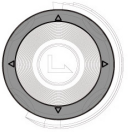
Under Playback Mode, you can rotate the image by 90°/step as shown below.





Downloaded From VideoCamera-Manual.com Manuals

2.5 Buttons & Functions

Description	Button	Function
Power Button		Press the button to turn ON/OFF the Digital Video Camera.
SET (Menu) Button		Press the button to display the main OSD menu.
MODE Button		There are three operating modes for the Digital Video Camera: DV Mode, DSC Mode, and Voice Recording Mode. Press the Mode button to change to different modes.
4-Way Direction Button		• Press the 4-Way Direction Button UP to turn on/off the flash light: auto, fill-in, off. • Press DOWN to delete the file when it's in Playback mode or switch to Marco when it's in DSC mode.
Zoom button		This Digital Video Camera is equipped with, 4X Digital zoom (For 720p & below) and a 5X Optical Zoom function. Press the Zoom button Right (T) to pull in the distance of the subject, or press the button Left (W) to move away the distance from the object

Downloaded From VideoCamera-Manual.com Manuals

Shutter button		Press the button to take images.
Recording button		Press the button to take movie clip and voice recording
Playback Button		Press the Playback button to enter Playback mode and playback the last file.

2.6 About LED Indicators

Below table describes the meaning of the camera LED indicators:

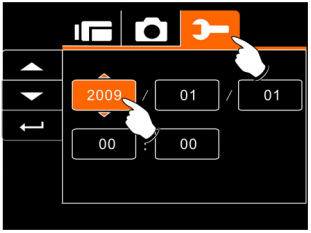
	Indicator Color	Definition
Power	Green	Turning power on.
	Red blinking	Flash is charging.
Recording	Red blinking	Recording
Self-timer	Red blinking	Start of Self-timer.

2.7 Initial settings before use

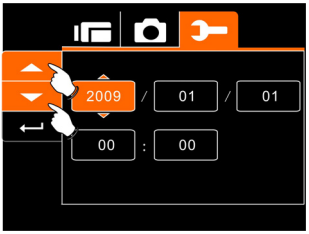
2.7.1 Setting Date and Time

1. Turn on the Digital Video Camera to set up the date and time for the first time. Set the date and time by moving up/down button or touch the screen to select.

Downloaded From VideoCamera-Manual.com Manuals



2. Press the 4-Way Direction Button left/right to highlight each column. Then press up/down or touch the screen to select the column.



3. Press the 4-Way Direction Button Up/Down to adjust the value. Press SET (Menu) Button to store the value you change or touch the screen to adjust the Year, Date and Time before pressing the Return Button (↵) to store the value and leave the setting.

Downloaded From VideoCamera-Manual.com Manuals

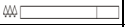
3 LCD Display Information

3.1 In Movie Clip Mode

The following table regarding the description of each icon and symbol will be shown when the Digital Video Camera is in DV Mode ( ).

1		Movie Clip recording indicator
2		Motion Detection
3		Night Mode indicator
4		Exposure compensation indicator
5		Color effect indicator
6		Metering Mode

Downloaded From VideoCamera-Manual.com Manuals

7		White balance indicator
8		Battery status indicator
9	00:00:00	Remaining recording time indicator
10		Resolution indicator
11		Compensation indicator
12		Histogram indicator
13		Playback indicator
14		Digital Zoom indicator
15		Menu Button
16		Memory Status indicator : SD card indicator : Internal memory indicator (displayed when there is no SD card)
17		Multi shot
18		Tap to toggle between the following two states: ● AF Lock on - Real-time continuous auto focus is thus disabled. Yet, the previously focused object can

Downloaded From VideoCamera-Manual.com Manuals

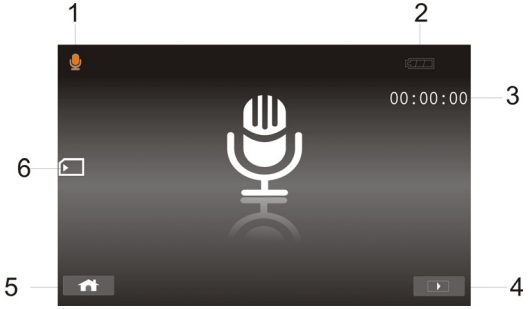
		still be kept in focus without becoming blurred while other new subjects appear in the LCD monitor. ● AF Lock off - This is the default value, and thus enables real-time continuous auto focus. Yet, the previously focused object might become blurred (not in focus) while other new subjects appear in the LCD monitor.

Note: The AF Lock feature is not supported while the camcorder is connected to a TV.

Downloaded From VideoCamera-Manual.com Manuals

3.2 In Voice Recording Mode

The following table regarding the description of each icon and symbol will be shown when the Digital Video Camera is in Voice Recording Mode ( ).



1		Voice Recording Mode indicator
2		Battery status indicator
3	00:00:00	Recording time left indicator
4		Playback Button
5		Menu Button
6		Memory Status indicator : SD card indicator : Internal memory indicator (displayed when there is no SD card)

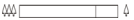
Downloaded From VideoCamera-Manual.com Manuals

3.3 In DSC Mode

The following table regarding the description of each icon and symbol will be shown when the Digital Video Camera is in DSC Mode ( ).

1		DSC Mode indicator
2		Night Mode indicator
3		EV compensation indicator
4		Effect indicator
5		Metering Mode
6		White balance indicator

Downloaded From VideoCamera-Manual.com Manuals

7		Macro indicator
8		Battery indicator
9	0003	Number of pictures left.
10	5 M	Resolution indicator
11		Backlight compensation
12		Histogram indicator
13		Playback Button
14		Digital zoom indicator
15		Menu Button
16	INT	Memory Status indicator : SD card indicator INT : Internal memory indicator (displayed when there is no SD card)
17		Continuous Shot Mode
18		Self-timer indicator

Downloaded From VideoCamera-Manual.com Manuals

4 Using the Camera

4.1 Shooting a Movie Clip

1. DV mode is the default setting after you power on the Digital Video Camera.
2. Press the Recording button to start or stop moving recording.
3. The Digital Video Camera will store the Movie clip automatically.

Downloaded From VideoCamera-Manual.com Manuals

4. LCD screen ratio will be different depending on the setting of Movie Clip resolution. Please refer to the table shown below:

Video Resolution	Preview
FHD (1920 x 1080) HD (1280 x 720) WVGA (848x480)	16:9 ratio
WEB (320 x 240)	4:3 ratio

Downloaded From VideoCamera-Manual.com Manuals

4.2 Capturing a still image from a movie

You can save a selected frame from a recorded movie as a still image. Select the video clip, and press the shutter button at an interested frame.

1. DV mode is the default setting after you power on the Digital Video Camera.
2. Press the Recording button to start or stop video recording.
3. While filming video, still image can be taken by pressing the shutter button.
4. The Digital Video Camera will store the image automatically.

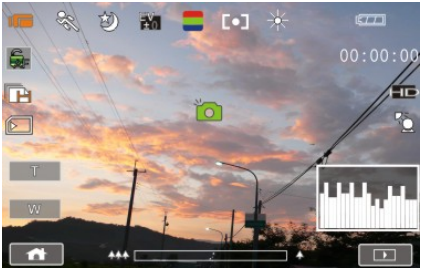


Image resolution	
FHD FHD	1920 x 1080
HD HD	1280 x 720
WVGA WVGA	848 x 480
WEB WEB	320 x 240

Note: the image size is fixed depending on the image quality of the video clip.
1. When setting to FHD, HD or WVGA resolution, the LCD display aspect ratio is 16:9.
2. When setting to WEB video resolution, the LCD display aspect ratio is 4:3.

Downloaded From VideoCamera-Manual.com Manuals

4.3 Capturing a still image in video mode

You can save a selected frame in the video mode as a still image. Press shutter button at an interested preview image to save the interested frame. It is also workable during recording a video clip.

1. Press the shutter button in movie clip during playback .
2. The Digital Video Camera will store the image automatically.

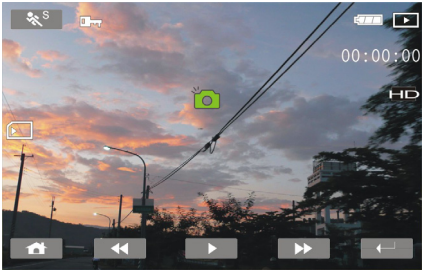


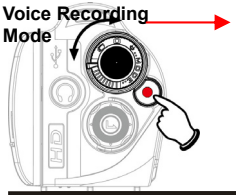
Image resolution	
FHD FHD	1920 x 1080
HD HD	1280 x 720
WVGA WVGA	848 x 480
WEB WEB	320 x 240

Note: the image size is fixed depending on the image quality of the video clip.
1. When setting to FHD, HD or WVGA resolution, the LCD display aspect ratio is 16:9.
2. When setting to WEB video resolution, the LCD display aspect ratio is 4:3.

Downloaded From VideoCamera-Manual.com Manuals

4.4 Voice Recording:

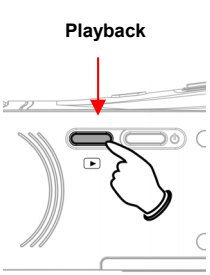
1. Turn on the Digital Video Camera.
2. Press the MODE button to enter Voice Recording mode.
3. Press the Recording button to start or stop Voice recording.

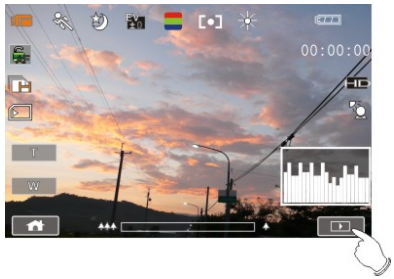


Downloaded From VideoCamera-Manual.com Manuals

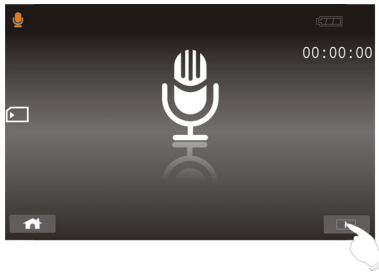
4.5 Movie Clip / Voice Clip Playback

1. In Movie/Voice Recording Mode, press Playback Button to display recently stored file on the LCD screen.





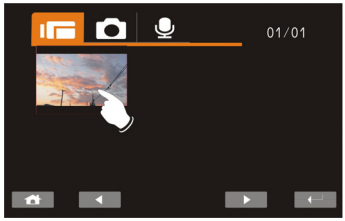
Playback Mode indicator



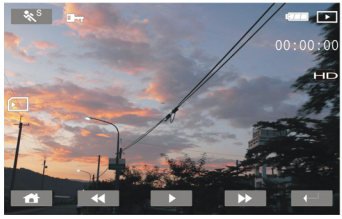
Playback Mode indicator

Downloaded From VideoCamera-Manual.com Manuals

2. Press 4-Way Direction Button up/down, left/right to view the stored file. Press SET (Menu) Button to playback or touch the screen to select Playback of the file.



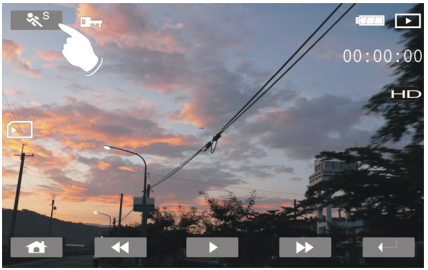
3. To pause the Playback of file, press the Recording button or touch the screen icon (/).



4. Press the Playback Button to return to Movie/Voice Recording Mode.

Downloaded From VideoCamera-Manual.com Manuals

5. You can also playback the movie clip by different speed by touching (ON/OFF) the screen icon ( ).



Playback speed is as below when the Slow Motion is **"OFF":**		
◀◀		▶▶
Rewind	**2X** play	Forward
Rewind	**4X** play	Forward
Rewind	**8X** play	Forward
Rewind	**16X** play	Forward

Playback speed is as below when the Slow Motion is **"ON":**		
◀◀		▶▶
Rewind	**1/2X** play	Forward
Rewind	**1/4X** play	Forward
Rewind	**1/8X** play	Forward
Rewind	**1/16X** play	Forward

Downloaded From VideoCamera-Manual.com Manuals

4.6 Shooting / Playback images

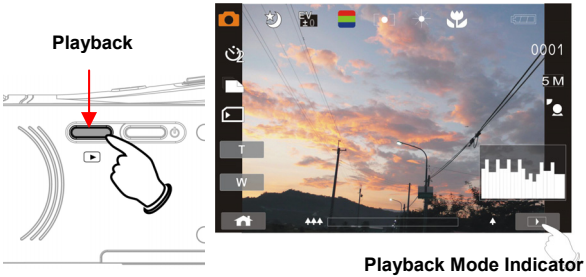
4.6.1 Taking a picture

1. Turn on the power and adjust the Mode Button to DSC Mode.
2. Press Shutter Button to capture images.

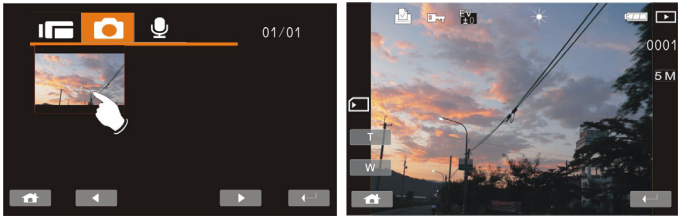
Downloaded From VideoCamera-Manual.com Manuals

4.6.2 Images Playback

1. In DSC Mode, press Playback Button to display the images on the LCD screen.



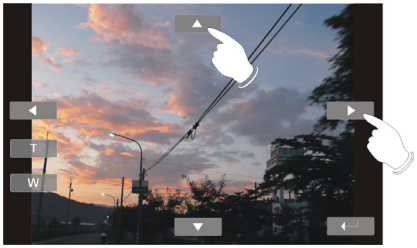
2. Press 4-Way Direction Button up/down, or left/right to view the stored files. Press SET (Menu) Button to replay or touch the screen to playback.



Downloaded From VideoCamera-Manual.com Manuals

3. Press SET(Menu) Button or touch the screen to return to full screen for viewing images.

4. Touch the panel icon (T or W) to enlarge or shrink the image. Then, you can move the image up/down or left/right.



5. Press Playback Button again to return to DSC Mode.

Downloaded From VideoCamera-Manual.com Manuals

5 LCD Display Information

5.1 Movie Clip Recording Mode:

Please refer to the following table regarding the description of each icon and symbol.

1		File Protect indicator
2		Battery status indicator
3		Playback Mode icon
4	00:00:00	Length of each Movie Clip
5		Resolution indicator
6		Return Button
7		Fast forward Playback Button

Downloaded From VideoCamera-Manual.com Manuals

8		Playback/Pause button
9		Fast rewind Playback Button
10		Menu Button
11		Memory Status indicator : SD card indicator : Internal memory indicator (displayed when there is no SD card)
12		Slow motion Playback

Downloaded From VideoCamera-Manual.com Manuals

5.2 Voice Recording Mode:

Please refer to the following table regarding the description of each icon and symbol.

1		File Protect indicator
2		Battery status indicator
3		Playback Mode icon
4	00:00:00	Length of each voice recording.
5		Playback mode indicator
6		Playback/Pause Button
7		Menu Button
8		Memory Status indicator : SD card indicator : Internal memory indicator (displayed when there is no SD card)

Downloaded From VideoCamera-Manual.com Manuals

5.3 DSC Playback Mode

Please refer to the following illustration to familiarize yourself with icons and symbols of DSC Playback Mode.

1		DPOF (Digital Print Order Format) indicator
2		File Protect indicator
3		Exposure compensation indicator
4		White balance
5		Battery status indicator
6		Image Playback Mode icon
7	0003	Number of pictures left

Downloaded From VideoCamera-Manual.com Manuals

8		Resolution indicator
9		Return Button
10		Menu Button
11		Zoom- Out indicator
12		Zoom- In indicator
13		Memory Status indicator : SD card indicator : Internal memory indicator (displayed when there is no SD card)

Downloaded From VideoCamera-Manual.com Manuals

6 Menu Mode

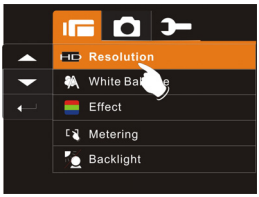
When the menu appears on the LCD display, the SET (Menu) button is used to move through the highlighted items in the submenu or to select a menu item.

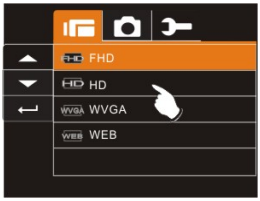
6.1 Menu options of Movie Clip Mode

When in Movie Clip mode, press the SET(Menu) Button to show the Movie options menu.

6.1.1 Movie Clip Resolution

1. Turn on the Digital Video Camera and make sure it is in the DV Mode.
2. Press SET (Menu) Button and press the 4-Way Direction Button to highlight the Resolution item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select FHD, HD, WVGA or WEB. Press SET (Menu) Button to confirm; or touch the screen to select the item.





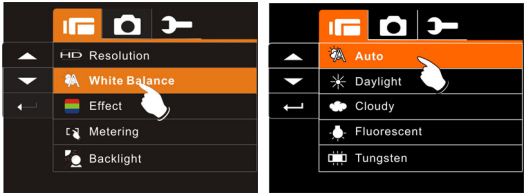
FHD	1920 x 1080
HD	1280 x 720
WVGA	848 x 480
WEB	320 x 240

Downloaded From VideoCamera-Manual.com Manuals

Note: 1.When setting to FHD, HD or WVGA resolution, the LCD display aspect ratio is 16:9.
2. When setting to WEB video resolution, the LCD display aspect ratio is 4:3.

6.1.2 White Balance

1. Turn on the Digital Video Camera and make sure it is in the DV Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the White Balance item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select Auto, Daylight, Cloudy, Fluorescent or Tungsten. Press SET (Menu) Button to confirm; or touch the screen to select the item.



Auto	The Digital Video Camera automatically adjusts white balance.
Daylight	The setting is suitable for outdoor recording in daylight.
Cloudy	The setting is suitable for recording in cloudy or shady environments.
Fluorescent	The setting is suitable for indoor with fluorescent lamp lighting, or environments with high color temperature.
Tungsten	The setting is suitable for indoor with incandescent lamp light, or environments with low color temperature.

Downloaded From VideoCamera-Manual.com Manuals

6.1.3 Effect

1. Turn on the Digital Video Camera and make sure it is in the DV Mode.
2. Press SET (Menu) Button and press the 4-Way Direction Button to highlight the Effect item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select Normal, B/W or Sepia. Press SET (Menu) Button to confirm; or touch the screen to select the item.

Normal	Make recordings in nature color
B&W	Make recordings in B&W (Black and White) color
Sepia	Make recordings in Sepia-toned color

Downloaded From VideoCamera-Manual.com Manuals

6.1.4 Metering

1. Turn on the Digital Video Camera and make sure it is in the DV Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the Metering item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select Spot, Center or Touch AE. Press SET (Menu) Button to confirm; or touch the screen to select the item.

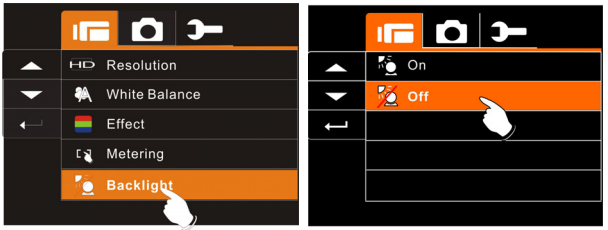
Spot	This setting is to ensure correct exposure for the object even if the background is very bright or very dark.
Center	Use this setting to preserve background details while letting lighting conditions at the center of the frame define exposure.
Touch AE	Touch the object to make it with suitable light.

Note: The Touch AE feature is not supported while the camcorder is connected to a TV.

Downloaded From VideoCamera-Manual.com Manuals

6.1.5 Backlight

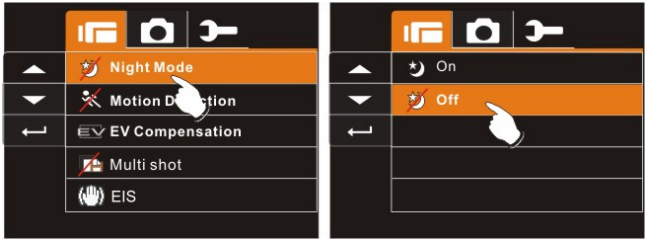
1. Turn on the Digital Video Camera and make sure it is in the DV Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the Backlight item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select On or Off. Press SET (Menu) Button to confirm; or touch the screen to select the item.



Downloaded From VideoCamera-Manual.com Manuals

6.1.6 Night Mode

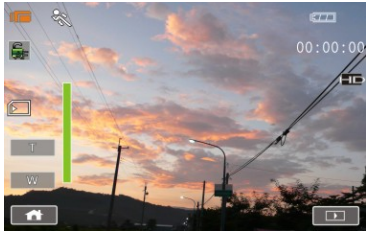
1. Turn on the Digital Video Camera and make sure it is in the DV Mode.
2. Press SET (Menu) Button and press the 4-Way Direction Button to highlight the Night Mode item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select On or Off. Press SET (Menu) Button to confirm; or touch the screen to select the item.



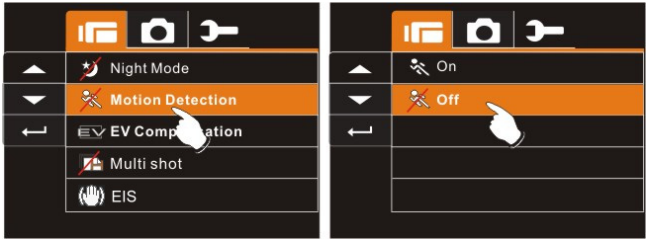
Downloaded From VideoCamera-Manual.com Manuals

6.1.7 Motion Detection

When Motion Detection is turned on, the camera will detect the motion for Movie Clip recording without human intervention. When the AE variation is detected, the recording will start immediately.



1. Turn on the Digital Video Camera and make sure it is in the DV Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the Motion Detection item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select On or Off. Press SET (Menu) Button to confirm; or touch the screen to select the item.

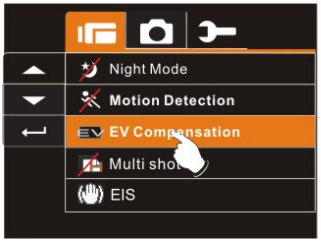


Downloaded From VideoCamera-Manual.com Manuals

6.1.8 EV Compensation

You can adjust the value of the exposure compensation which is ranged from -2.0EV to +2.0EV (at 0.5EV increment). The higher the EV value, the brighter the image will be.

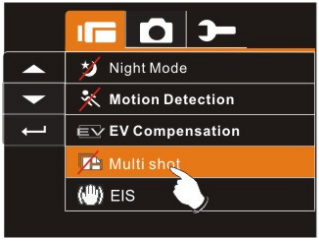
1. Turn on the Digital Video Camera and make sure it is in the DV Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the EV Compensation item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to adjust the Exposure value (-2.0 ~ + 2.0). Press SET (Menu) Button to confirm; or touch the screen to select the item.



Downloaded From VideoCamera-Manual.com Manuals

6.1.9 Multi shot

1. Turn on the Digital Video Camera and make sure it is in the DV Mode.
2. Press SET (Menu) Button and press the 4-Way Direction Button to highlight the Multi shot item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select On or Off. Press SET (Menu) Button to confirm; or touch the screen to select the item.



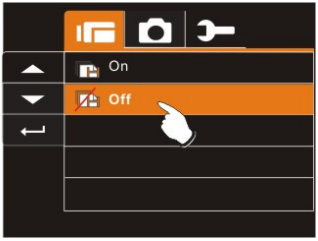
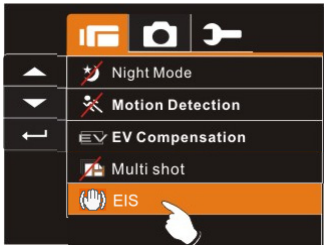


Image resolution	
FHD	1920 x 1080
HD	1280 x 720
WVGA	848 x 480
WEB	320 x 240

Note: the image size is fixed depending on the image quality of the video clip.
1. When setting to FHD, HD or WVGA resolution, the LCD display aspect ratio is 16:9.
2. When setting to WEB video resolution, the LCD display aspect ratio is 4:3.

Downloaded From VideoCamera-Manual.com Manuals

6.1.10 EIS (Electronic Image Stabilizer)



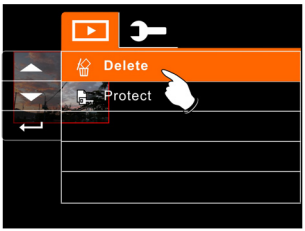
Downloaded From VideoCamera-Manual.com Manuals

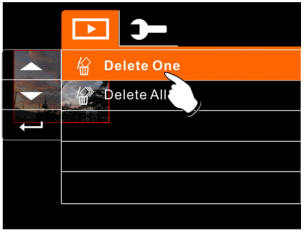
6.2 Menus of Movie Clip/Voice Playback

When in Movie Clip mode, press the SET (Menu) Button to show the Movie Clip options menu.

6.2.1 Delete

1. Turn on the Digital Video Camera and make sure it is in the Movie Clip/Voice Playback Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the Delete item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Use 4-Way Direction Button to select Delete One or Delete All. Press SET (Menu) Button to confirm; or touch the screen to select the item.





Downloaded From VideoCamera-Manual.com Manuals

4. Press 4-Way Direction Button to select “O” Yes or “X” NO. Press SET (Menu) Button to confirm; or touch the screen to select the item.

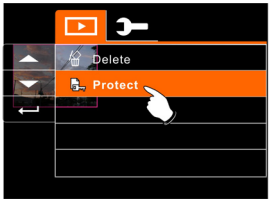
Delete One	Delete the current file
Delete All	Delete all files stored in the Digital Video Camera

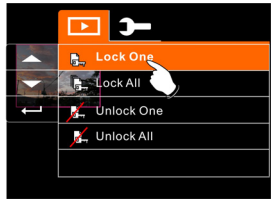
Note: The file cannot be recovered once it is deleted. Therefore, please make sure you have backed up the file before Delete. Protect files cannot be deleted. Before delete, you must unlock the file.

Downloaded From VideoCamera-Manual.com Manuals

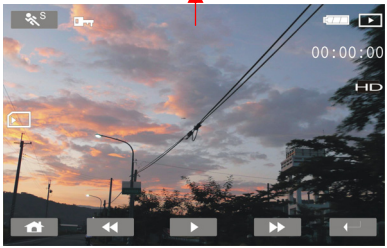
6.2.2 Protect

1. Turn on the Digital Video Camera and make sure it is in the Movie Clip/Voice Playback Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the Protect item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Use 4-Way Direction Button to select Lock One, Local All, Unlock One or Unlock All. Press SET (Menu) Button to confirm; or touch the screen to select the item.





Protect Lock



Note: To unlock the file from Protect, repeat steps stated above. When the Protection is relieved from Protect mode, the locked icon will disappear.

Downloaded From VideoCamera-Manual.com Manuals

6.3 Menu options of Camera Mode

When in DSC Mode, press SET (Menu) Button to display camera mode option Menu.

6.3.1 Still Image Resolution

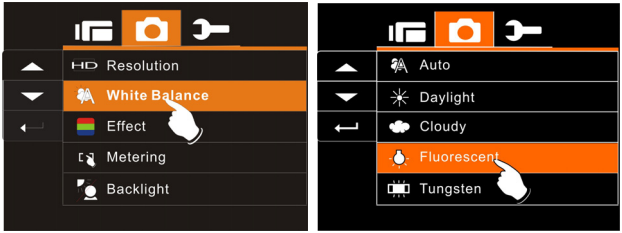
1. Turn on the Digital Video Camera and make sure it is in the DSC Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the Resolution item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select 12M, 8M, 5M or 3M. Press SET (Menu) Button to confirm; or touch the screen to select the item.

12M	4000 x 3000 pixels (Interpolation)
8M	3200 x 2400 pixels (Interpolation)
5M	2592 x 1944 pixels
3M	2048 x 1536 pixels

Downloaded From VideoCamera-Manual.com Manuals

6.3.2 White Balance

1. Turn on the Digital Video Camera and make sure it is in the DSC Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the White Balance item. Press SET (Menu Button) to display submenu; or touch the screen to select the item.
3. Use 4-Way Direction Button to select Auto, Daylight, Cloudy, Fluorescent or Tungsten. Press SET (Menu) Button to confirm; or touch the screen to select the item.

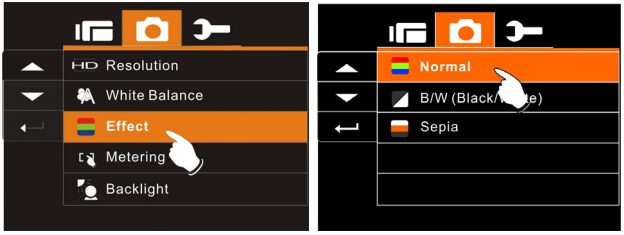


Downloaded From VideoCamera-Manual.com Manuals

6.3.3 Effect

This Digital Video Camera can take standard color images, Black and White images, or Sepia color tone images.

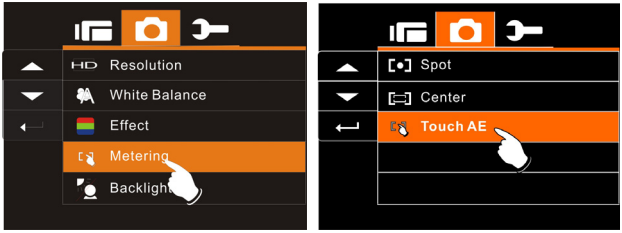
1. Turn on the Digital Video Camera and make sure it is in the DSC Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the Effect item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Use 4-Way Direction Button to select Normal, B/W or Sepia. Press SET (Menu) Button to confirm; or touch the screen to select the item.



Downloaded From VideoCamera-Manual.com Manuals

6.3.4 Metering

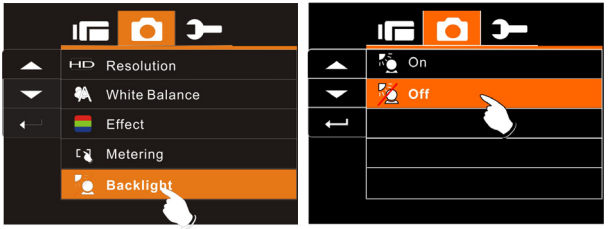
1. Turn on the Digital Video Camera and make sure it is in the DSC Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the Metering item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select Spot, Center or Touch AE. Press SET (Menu) Button to confirm; or touch the screen to select the item.



Downloaded From VideoCamera-Manual.com Manuals

6.3.5 Backlight

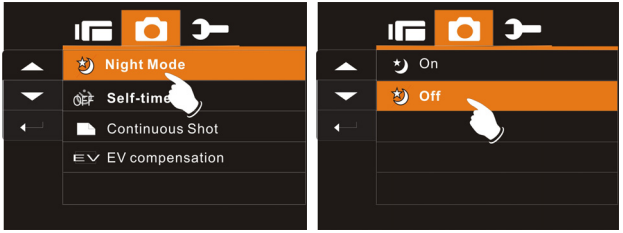
1. Turn on the Digital Video Camera and make sure it is in the DSC Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the Backlight item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select ON or OFF. Press SET (Menu) Button to confirm; or touch the screen to select the item.



Downloaded From VideoCamera-Manual.com Manuals

6.3.6 Night Mode

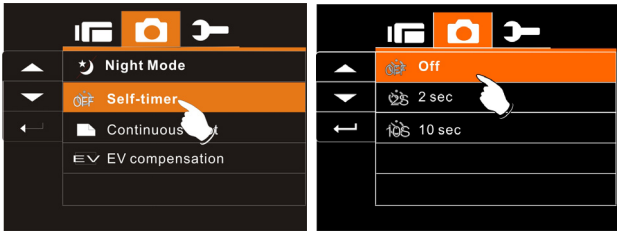
1. Turn on the Digital Video Camera and make sure it is in the DSC Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the Night Mode item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select On or Off. Press SET (Menu) Button to confirm; or touch the screen to select the item.



Downloaded From VideoCamera-Manual.com Manuals

6.3.7 Self-timer

1. Turn on the Digital Video Camera and make sure it is in the DSC Mode.
2. Press SET (Menu) Button and use the 4-Way Direction Button to highlight the Self-timer item. Press SET (Menu Button) to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select OFF, 2 Sec or 10 sec. Press SET (Menu) Button to confirm; or touch the screen to select the item.



With 2 sec. Self-timer:

The image will be taken 2 seconds after the shutter is released.

With 10 sec. Self-timer:

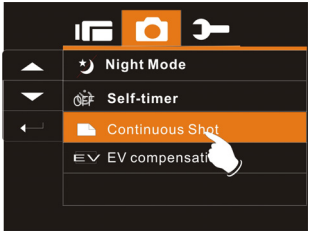
The image will be taken 10 seconds after the shutter is released.

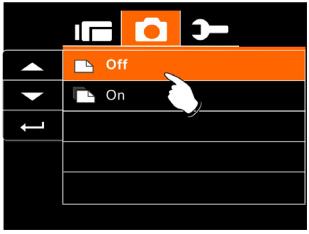
Downloaded From VideoCamera-Manual.com Manuals

6.3.8 Continuous Shot

You can continuously shooting three pictures by this function, started by pressing and holding the Shutter Button and ending automatically by taken three pictures.

1. Turn on the Digital Video Camera and make sure it is in the DSC Mode.
2. Press SET (Menu) Button and press the 4-Way Direction Button to highlight the Continuous Shot item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select OFF or ON. Press SET (Menu) Button to confirm; or touch the screen to select the item.



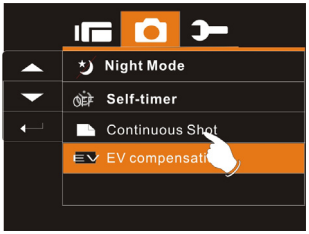


Downloaded From VideoCamera-Manual.com Manuals

6.3.9 EV compensation

You can adjust the value of the exposure compensation which is ranged from -2.0EV to +2.0EV (at 0.5EV increment). The higher the EV value, the brighter the image will be.

1. Turn on the Digital Video Camera and make sure it is in the DSC Mode.
2. Press SET (Menu) Button and press the 4-Way Direction Button to highlight the EV Compression item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to adjust the exposure value (-2.0 ~ +2.0). Press SET (Menu) Button to confirm; or touch the screen to select the item.



Downloaded From VideoCamera-Manual.com Manuals

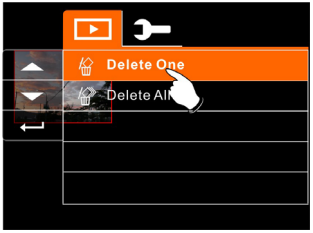
6.4 Menus of Playback

6.4.1 Delete

Use this function to delete the files.

1. Turn on the Digital Video Camera and make sure it is in the **Playback** Mode.
2. Press SET (Menu) Button and press the **4-Way Direction Button** Down; or touch the screen to select the file to be deleted or to delete all files.

3. Press the 4-Way Direction Button or touch the screen to select “Delete one” or “Delete All” to display submenu.



Downloaded From VideoCamera-Manual.com Manuals

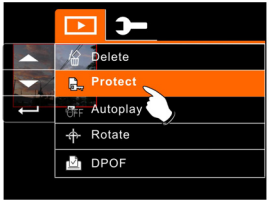
4. Press 4-Way Direction Button or touch the screen to select **“O” YES** or **“X” No** and press SET (Menu) Button to delete file(s).

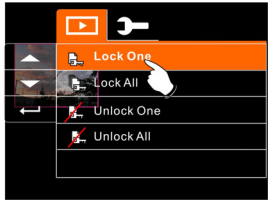
Note: The files cannot be recovered once deleted. Therefore, please make sure you have a backup file before delete. The protect files will not be able to delete. Before delete of Protected file, you must unlock the file.

Downloaded From VideoCamera-Manual.com Manuals

6.4.2 Protect

1. Turn on the power of Digital Video Camera and make sure it is in the **Playback** Mode.
2. Choose the file which you want to protect.
3. Press SET (Menu) Button and move the **4-Way Direction Button** to highlight the **Protect** item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
4. Press 4-Way Direction Button or touch the screen to select item. Press SET (Menu) Button or touch the screen to confirm. The Locked icon will be displayed to indicate the file is Protected.





Protect Lock

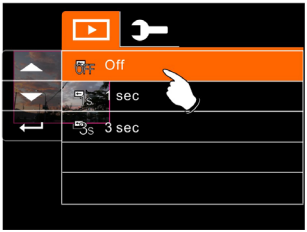
Note: Repeat above steps to unlock the file. When the file is unlocked, the locked icon will disappear.

Downloaded From VideoCamera-Manual.com Manuals

6.4.3 Auto play

This Digital Video Camera includes a slide show function that could playback each picture at a regular interval.

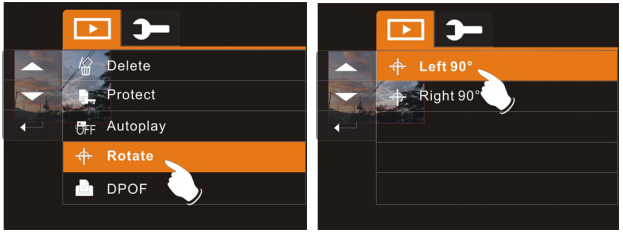
1. Turn on the power of Digital Video Camera and make sure it is in the Playback Mode.
2. Press SET (Menu) Button and move the 4-Way Direction Button to highlight the Auto play item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button or touch the screen to select “Off”, 1sec., or “3 sec”. The images will be displayed automatically.



Downloaded From VideoCamera-Manual.com Manuals

6.4.4 Rotate

1. Turn on the power of the Digital Video Camera and make sure it is in the Playback Mode.
2. Use 4-Way Direction Button to highlight Rotate item and press SET (Menu) Button; or touch the screen to select the Left 90 or Right 90.



Downloaded From VideoCamera-Manual.com Manuals

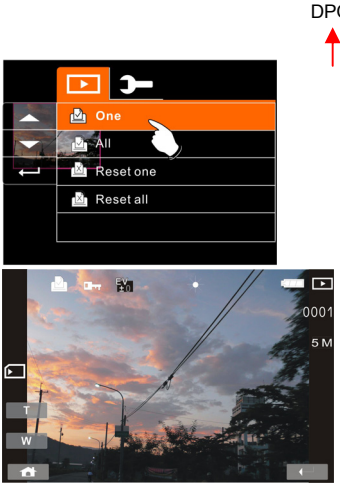
6.4.5 DPOF

Use DPOF (Digital Print Order Format) function to indicate the printing information stored in the memory card.

1. Turn on the power of the Digital Video Camera and make sure it is in the Playback Mode. Press Playback Button and press SET (Menu) Button to display Image Playback Menu; or touch the screen to select the item.
2. Use 4-Way Direction Button to highlight the DPOF item. Press SET (Menu) Button; or touch the screen to display submenu.

3. Use the 4-Way Direction Button and press SET (Menu) Button; or touch the screen to select the item. The DPOF icon will be shown to indicate the files that are ordered for printing.

Downloaded From VideoCamera-Manual.com Manuals



4. Press the Playback Button or touch the screen to exit the image.

Note:
1. A memory card is required for the DPOF function.
2. If DPOF is set, the pictures to be printed are ordered to print.

Downloaded From VideoCamera-Manual.com Manuals

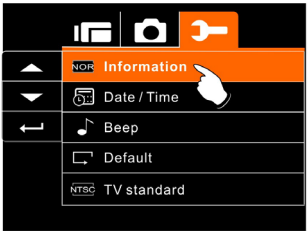
6.5 Setting Menu

Setting Menu can be used to select all kinds of the Digital Video Camera settings.

6.5.1 Information

This function can be used to display information on the LCD screen to help you in capturing best images and movie clips.

1. Turn on the Digital Video Camera and switch to SET Mode.
2. Press 4-Way Direction Button to highlight Information item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select Normal, Histogram, or OFF. Press SET (Menu) Button to confirm; or touch the screen to select the item.



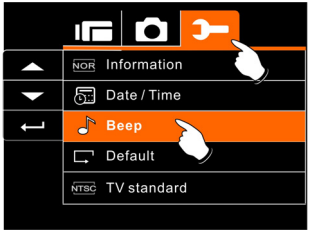
6.5.2 Date / Time

Please refer to 2.7.1 the Setting of Date and time on page 21.

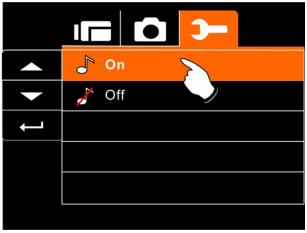
Downloaded From VideoCamera-Manual.com Manuals

6.5.3 Beep

1. Turn on the power of Digital Video Camera and switch to SET Mode. Press the 4-Way Direction Button up or down to highlight the Beep and press SET (Menu) selection Button to confirm or touch the screen to select.



2. Use 4-Way Direction Button or touch the screen to select On or Off.

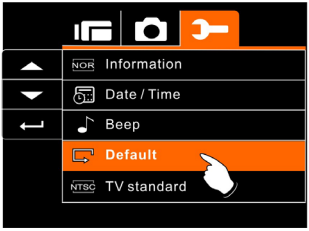


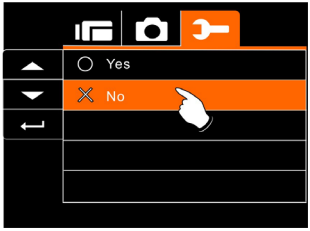
Downloaded From VideoCamera-Manual.com Manuals

6.5.4 Default

Use this function to reset all settings to default settings.

1. Turn on the power of Digital Video Camera and switch to SET Mode.
2. Press 4-Way Direction Button to highlight Default item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Use 4-Way Direction Button or touch the screen to select "O" YES or "X" NO. Press SET(Menu) Button to confirm; or touch the screen to select the item.



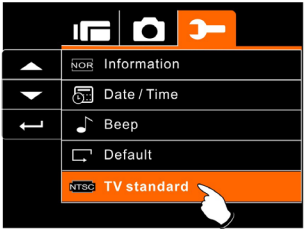


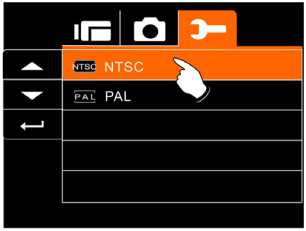
Downloaded From VideoCamera-Manual.com Manuals

6.5.5 TV standard

Use the TV standard to set the TV system for your area.

1. Turn on the power of Digital Video Camera and switch to SET Mode.
2. Use 4-Way Direction Button to highlight the TV standard item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Use 4-Way Direction Button to select NTSC or PAL. Press SET (Menu) Button to confirm; or touch the screen to select the item.





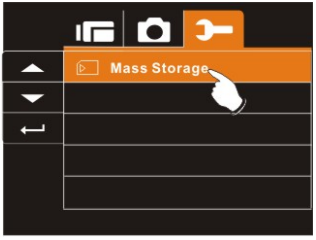
TV out standard setting reference	
NTSC NTSC	USA, Canada, Japan, Korea, Taiwan, Mexico
PAL PAL	Australia, Austria, Belgium, China, Denmark, Finland, Germany, UK, Italy, Kuwait, Malaysia, New Zealand, Singapore, Spain, Sweden, Switzerland, Thailand, Norway

Downloaded From VideoCamera-Manual.com Manuals

6.5.6 USB

This setting is for USB output function. You can select an external device to connect the Digital Video Camera by using the supplied USB cable.

1. Turn on the Digital Video Camera and switch to SET Mode.
2. Press 4-Way Direction Button to highlight the USB item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Use 4-Way Direction Button to select Mass Storage. Press SET (Menu) Button to confirm; or touch the screen to select the item.

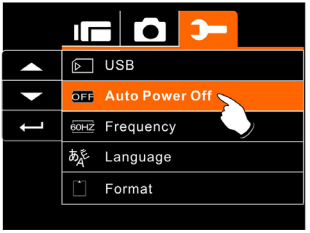


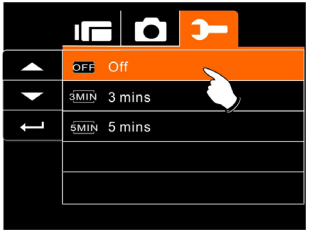
Downloaded From VideoCamera-Manual.com Manuals

6.5.7 Auto Power Off

This function can be used to turn off the Digital Video Camera automatically after a period of time not using the Digital Video Camera.

1. Turn on the Digital Video Camera and switch to SET Mode.
2. Press 4-Way Direction Button to highlight Auto Power Off item. Press SET(Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select OFF, 3 mins, or 5 mins; or touch the screen to select the item.



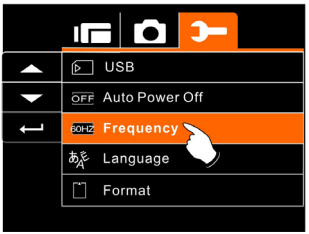


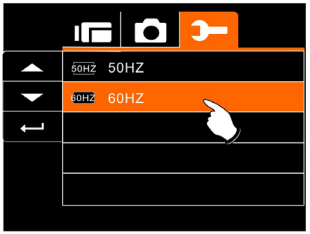
Downloaded From VideoCamera-Manual.com Manuals

6.5.8 Frequency

Use the Frequency option to set the frequency system for your area.

1. Turn on the power of Digital Video Camera and switch to SET Mode.
2. Use 4-Way Direction Button to highlight the Frequency selection item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Use 4-Way Direction Button to select 50 Hz or 60 Hz. Press SET (Menu) Button to confirm; or touch the screen to select the item.



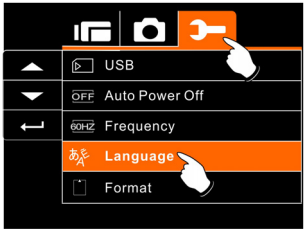


Frequency setting reference:	
50HZ 50HZ	UK, Germany, Spain, Italy, France, Netherlands, Portugal, Russia, China, Japan
60HZ 60HZ	USA, Taiwan, Korea, Japan

Downloaded From VideoCamera-Manual.com Manuals

6.5.9 Language

1. Turn on the power of the Digital Video Camera. Then select the Mode Button to “SET”. Move 4-Way Direction Button up and down to highlight the Language and press SET (Menu) button to confirm or touch the screen to select.



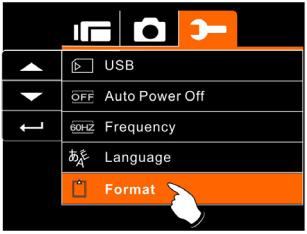
2. Press 4-Way Direction Button or touch the screen to select the following languages: English, German, French, Italian, Japanese, Spanish, Portuguese, Traditional Chinese, Simplified Chinese, Turkish, Russian, Thai, Arabic, Korean, Indonesian, Malay, Polish, Romanian, Czech, Croatian, and Brazilian Portuguese.

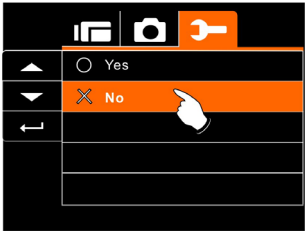
Downloaded From VideoCamera-Manual.com Manuals

6.5.10 Format

This function allows you to format the memory card or the built-in memory.

1. Turn on the power of Digital Video Camera and switch to SET Mode.
2. Press 4-Way Direction Button to highlight Format item. Press SET (Menu) Button or touch the screen to display submenu.
3. Press 4-Way Direction Button to select “O” Yes or “X” NO. Press SET (Menu) Button to confirm; or touch the screen to select the item.





4. The format of the current storage media (memory card or internal memory) is now completed.

Note: All the data stored in the memory card or flash memory will be deleted after formatting.

Downloaded From VideoCamera-Manual.com Manuals

6.5.11 File Number (Default: Series)

This setting allows you to name the files.

If “Series” is selected, the file name will follow the latest stored file instead.

If “Reset” is selected, the next file name will start from 0001 even after formatting, deleting or inserting a new memory card.

1. Turn on the power of Digital Video Camera and switch to SET Mode.
2. Press 4-Way Direction Button to highlight File Number item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Use 4-Way Direction Button to select Series or Reset. Press SET (Menu) Button to confirm; or touch the screen to select the item.

Downloaded From VideoCamera-Manual.com Manuals

6.5.12 LCD brightness

This function can be used to adjust the brightness of the screen.

1. Turn on the Digital Video Camera and switch to SET Mode.
2. Use 4-Way Direction Button to highlight LCD brightness item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select High, Medium, or Low. Press SET (Menu) Button to confirm; or touch the screen to select the item.

Downloaded From VideoCamera-Manual.com Manuals

6.5.13 Instant Review

This function can be used to instantly browse the files after taking the picture.

1. Turn on the Digital Video Camera and switch to SET Mode.
2. Press 4-Way Direction Button to highlight Instant Review item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press 4-Way Direction Button to select 1 sec, 3 sec, or 5 sec. Press SET (Menu) Button to confirm; or touch the screen to select the item.

Downloaded From VideoCamera-Manual.com Manuals

6.5.14 Volume

Use this function to adjust the volume of sound.

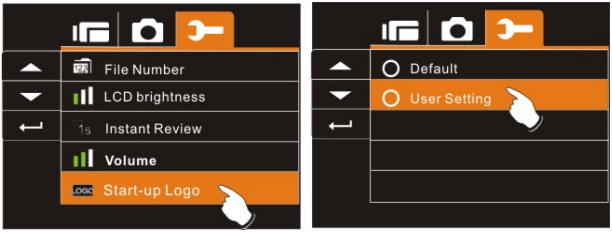
1. Turn on the Digital Video Camera and switch to SET Mode.
2. Press the 4-Way Direction Button to highlight Volume item. Press SET (Menu) Button to display submenu; or touch the screen to select the item.
3. Press the 4-Way Direction Button to select High, Medium, or Low. Press SET (Menu) Button to confirm; or touch the screen to select the item.

Downloaded From VideoCamera-Manual.com Manuals

6.5.15 Start-up LOGO

Use this function to the image that is displayed on the LCD when the digital camcorder is turned on.

1. Turn on the Digital Camcorder and switch to Setup Menu.
2. Press the 4-Way Direction Button to highlight the Star-up Logo item. Press the SET Button or touch the icon on the screen to display the submenu.
3. Press the 4-Way Direction Button to select Default or User Setting. Press the SET Button or touch the screen to select the item.

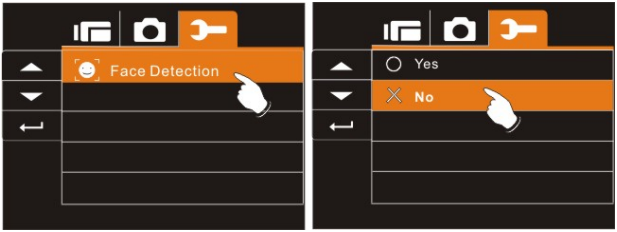


Downloaded From VideoCamera-Manual.com Manuals

6.5.16 Face Detection

You can use the Face Detection function to detect faces in a scene automatically during a photo shoot

1. Turn on the Digital Camcorder and switch to Setup Menu.
2. Press the 4-Way Direction Button to highlight the Face Detection item. Press the SET Button or touch the icon on the screen to display the submenu.
3. Press the 4-Way Direction Button to select “O” YES or “X” NO. Press the SET Button or touch the screen to select the item.

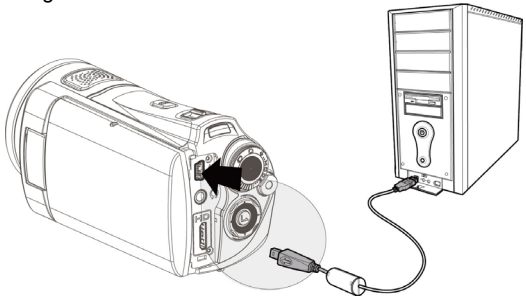


Downloaded From VideoCamera-Manual.com Manuals

7 PC and TV Connection

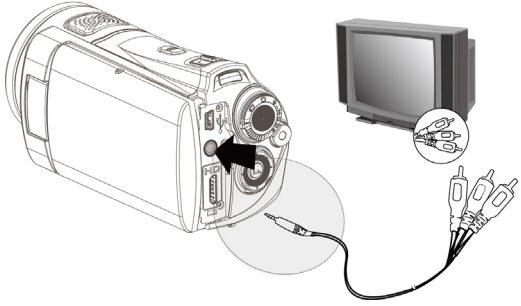
7.1 Connecting to the Computer

As shown in the illustration, use the USB cable provided to connect the Digital Video Camera to a PC for file transmission.



7.2 Connecting to a Standard TV

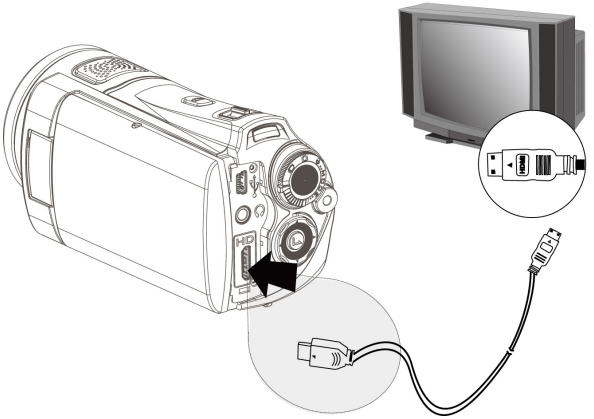
As shown in the illustration, use the video cable to connect the Digital Video Camera to a standard TV.



Downloaded From VideoCamera-Manual.com Manuals

7.3 Connecting to a HD TV

As shown in the illustration, use the HDMI cable provided to connect the Digital Video Camera to a HD TV for high resolution picture display.

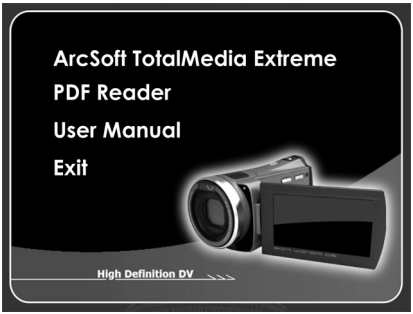


Downloaded From VideoCamera-Manual.com Manuals

8 Installing the Software

1. Place the CD ROM attached into the CD player.
2. If the CD is not executed automatically, please use Windows File Manager to execute the **Install_CD.exe** file in the CD.

   The following screen will be displayed.



3. Press the Menu item and follow the Installation process and follow the instructions on-screen.

Downloaded From VideoCamera-Manual.com Manuals

9 Editing Software

ArcSoft Total Media Extreme(TME) ™ manages your media for you, and gives you tons of fun and exciting ways to create and share projects featuring your photo, video, and music files. Edit, enhance and add creative effects to your photos. You can

- Create your own movies or photo slide shows complete with soundtrack.
- Upload your files easily to YouTube™!
- Or share them through simple email attachments or popular photo printing.
- You can go to http://www.arcsoft.com/ for more information.

Downloaded From VideoCamera-Manual.com Manuals

10 Appendix

Specifications

Image sensor	1/2.5 inch. 5.0 mega pixels CMOS sensor
Storage media	SD card and SDHC card Supported.
ISO Equipment	Auto
Color effect	Normal/BW/Sepia
Lens	5x zoom lens
Focus range (movie clip mode)	10cm~infinity
Focus range (DSC mode)	Normal: 80cm~infinity Macro: 10~80cm
Still image	Format: JPEG (DPOF, EXIF) Resolution: 3MP, 5MP, 8MP (Firmware interpolation), 12MP (Firmware interpolation)
Movie Clip	Format: H.264 (AVI) Resolution: FHD (1920 x 1080 / 30fps) HD (1280 x 720 / 30 fps) WVGA (848 x 480 / 60 fps) WEB (320 x 240 / 30 fps.)
Digital zoom	Still Image mode: 4X (720P)

Downloaded From VideoCamera-Manual.com Manuals

	Play mode: 8X (depends on image size)
Audio	Audio for Voice Recording: AAC
LCD Display	3.0” Touch Panel screen (16:9)
Flash light	Range: < 2 m auto, fill-in, off
White balance	Auto / Daylight / Cloudy / Tungsten / Fluorescent
Exposure	-2.0 EV~+2.0 EV
Self-Timer	Off, 2 seconds, 10 seconds.
Interface	Digital output connector: USB 2.0 compatible Internal microphone and speaker HDMI USB DC IN
TV output	NTSC/PAL
Shutter	Electronic shutter 2~1/8000 second
Auto Power Off	Off, 3 minutes, 5 minutes
Power Source	1200mAh lithium-ion battery
Dimensions	121(L) x 64 (H) x 54 (W) mm
Weight	About 300g (without battery)

Downloaded From VideoCamera-Manual.com Manuals

Troubleshooting

Problem	Possible Cause	Solution
Can not turn on the power of Digital Video Camera.	1. Batteries are not inserted correctly. 2. Batteries are exhausted.	1. Please insert batteries correctly. 2. Replace the batteries.
Camera shutdown suddenly.	1. Power saving mode already activated. 2. Battery exhausted.	1. Please turn on the power again. 2. Replace the batteries.
Pictures are not stored in the memory.	Power off before storing the images.	Please change to new batteries when the battery indicator turns to red color.
Camera shutdown when using Self-timer shooting picture.	Batteries in camera are exhausted.	Change new batteries.
Images are out of focus	Object exceeds the range of focus.	Please take the picture within the focusing range and select normal or Macro Mode.

Downloaded From VideoCamera-Manual.com Manuals

Unable to use the external memory card.	1. Memory card is Protected. 2. Memory card contains non-DCF images taken by other cameras.	1. Unlock the memory card. 2. Reformat the memory card. Please make sure to backup the file before reformatting memory card.
All Buttons can not work or camera hangs.	Short circuit occurred when connecting the camera to other device.	Take out batteries in the camera and re-insert again.

Downloaded From VideoCamera-Manual.com Manuals